OIPE JC139
AUG 04 2004
PATENT & TRADEMARK OFFICE

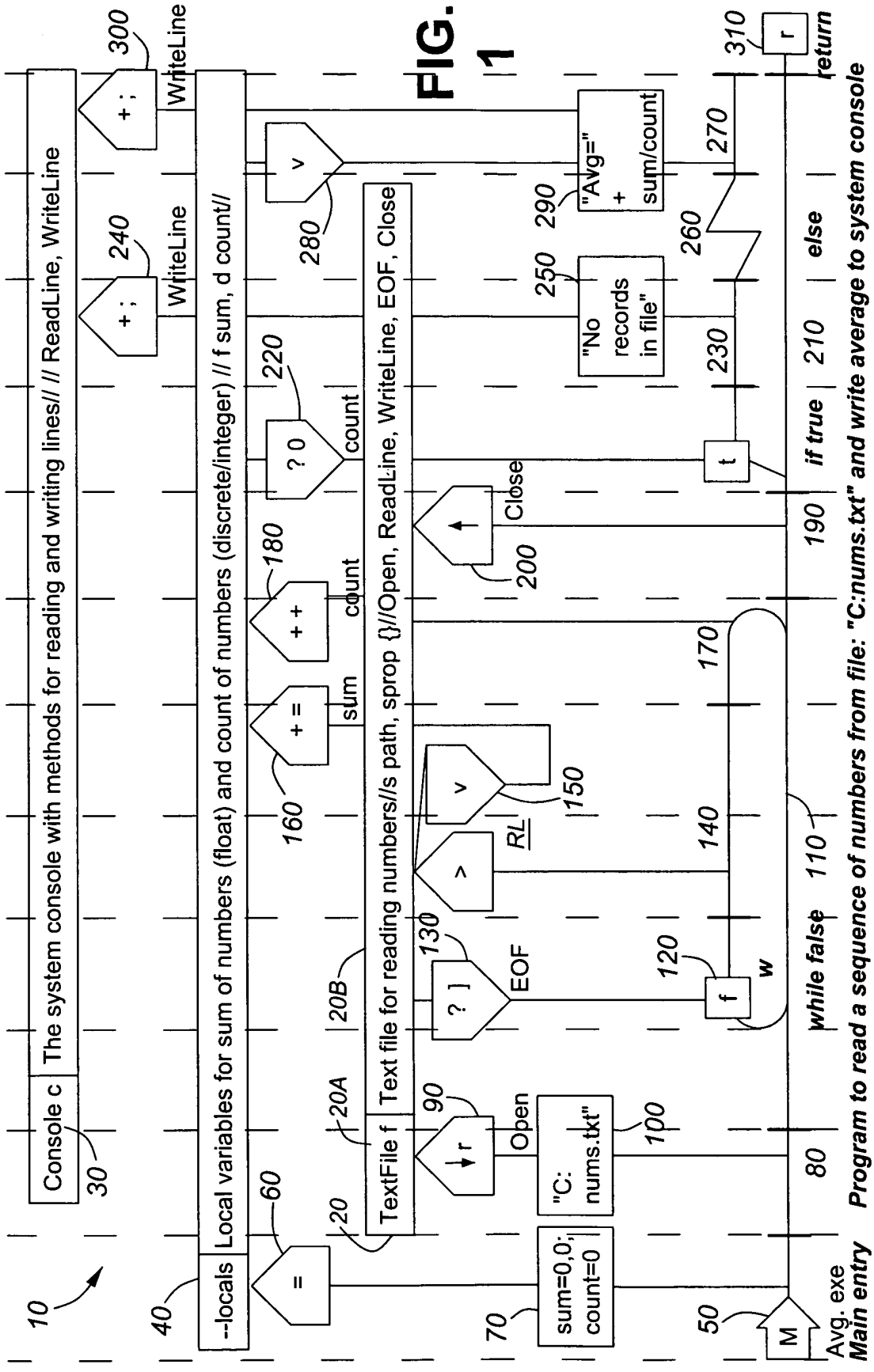

FIG. 1

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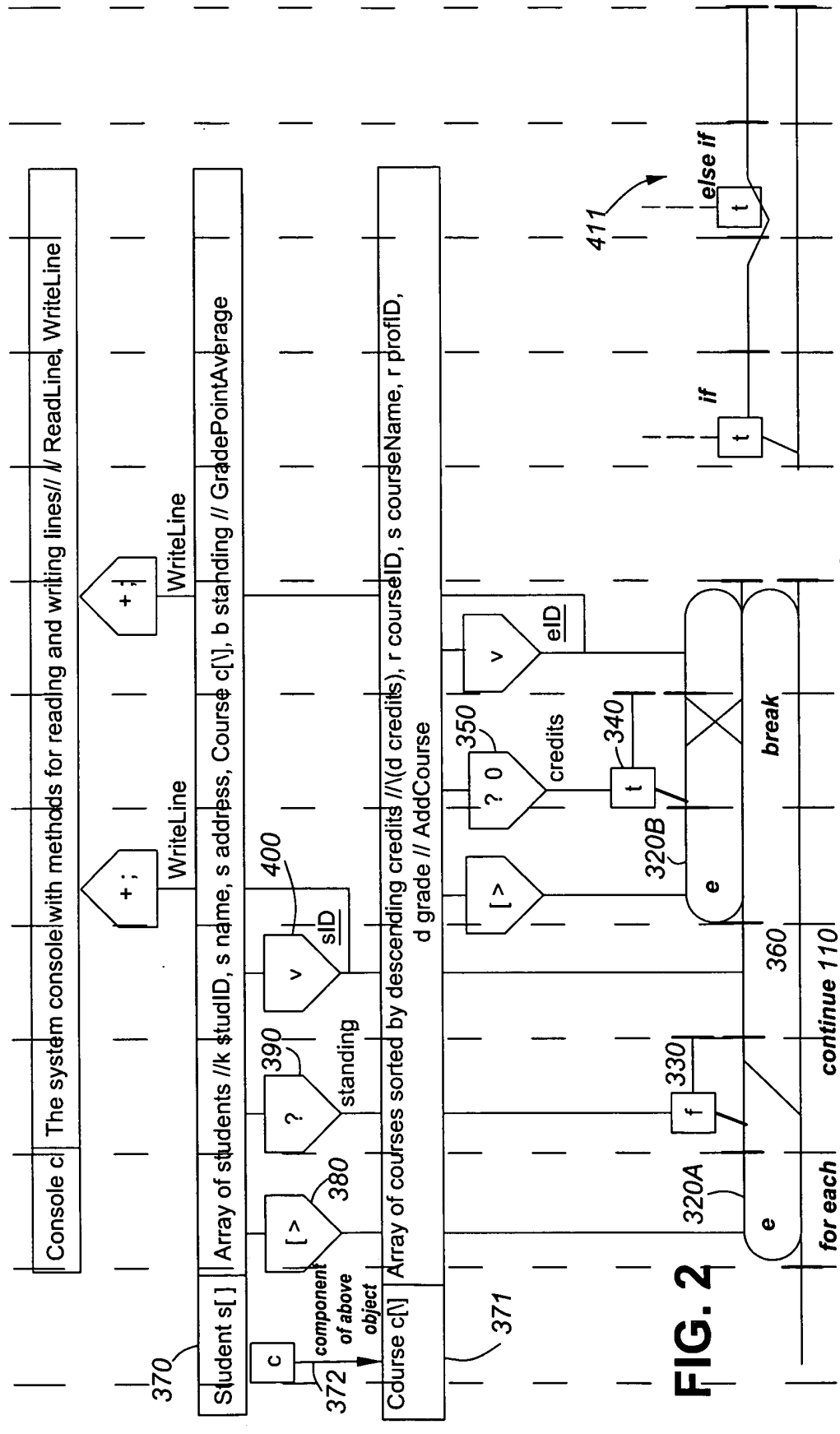

FIG. 2

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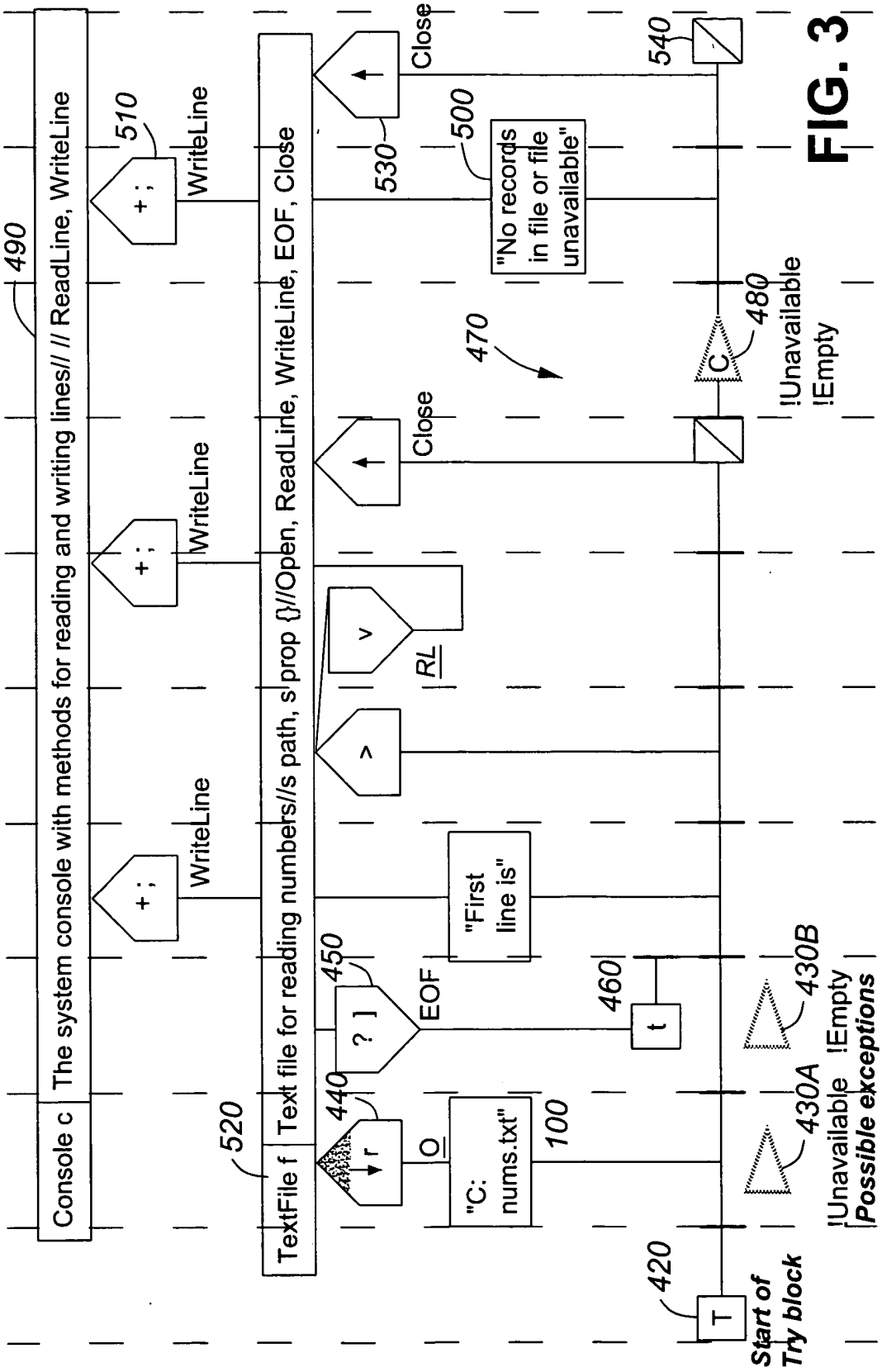

FIG. 3

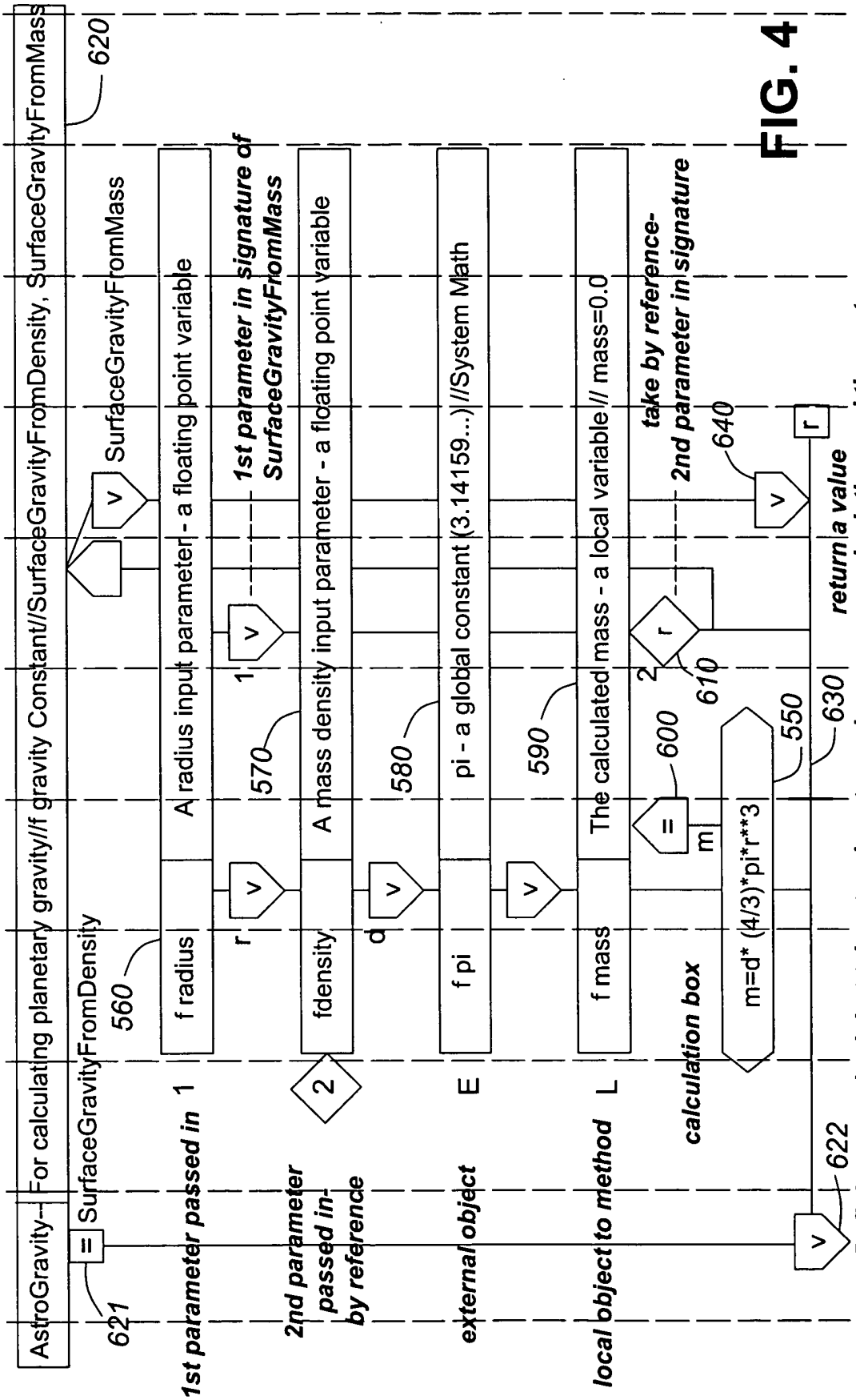
AstroGravity-- For calculating planetary gravity//f gravity Constant//SurfaceGravityFromDensity, SurfaceGravityFromMass
620
621
= SurfaceGravityFromDensity
SurfaceGravityFromMass
1st parameter passed in 1
560
f radius
A radius input parameter - a floating point variable
r
1st parameter in signature of SurfaceGravityFromMass
570
2nd parameter passed in- by reference
2
fdensity
A mass density input parameter - a floating point variable
d
580
external object E
f pi
pi - a global constant (3.14159...)//System Math
590
local object to method L
f mass
The calculated mass - a local variable // mass=0.0
600
=
m
m=d* (4/3)*pi*r**3
calculation box
610
2
r
take by reference- 2nd parameter in signature
640
r
return a value
550
630
622
Defining a method that takes two inputs, makes a mass calculation and then returns a value as a result of another method call with two inputs

FIG. 4

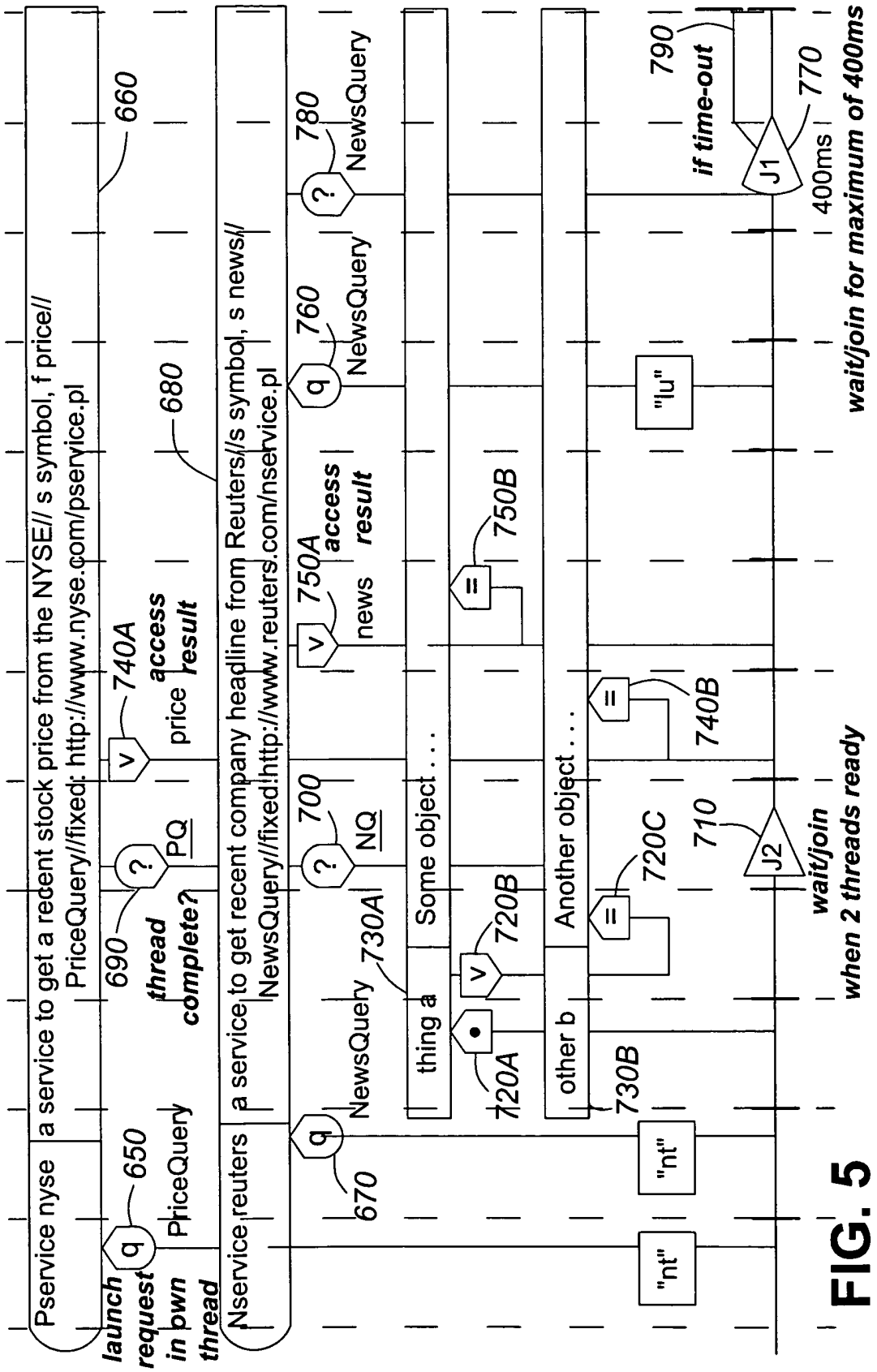
Pservice nyse
launch request in pwn thread
a service to get a redent stock price from the NYSE// s symbol, f price//
PriceQuery//fixed: http://www.nyse.com/pservice.pl
660
650
PriceQuery
690
thread complete?
PQ
740A
access result
price
680
Nservice reuters
a service to get recent company headline from Reuters//s symbol, s news//
NewsQuery//fixed!http://www.reuters.com/nservice.pl
670
NewsQuery
700
NQ
730A
760
NewsQuery
750A
access result
news
780
NewsQuery
thing a
Some object . . .
720A
720B
750B
other b
Another object . . .
730B
720C
740B
"nt"
"nt"
"lu"
790
if time-out
710
J2
J1
770
400ms
wait/join
when 2 threads ready
wait/join for maximum of 400ms

FIG. 5

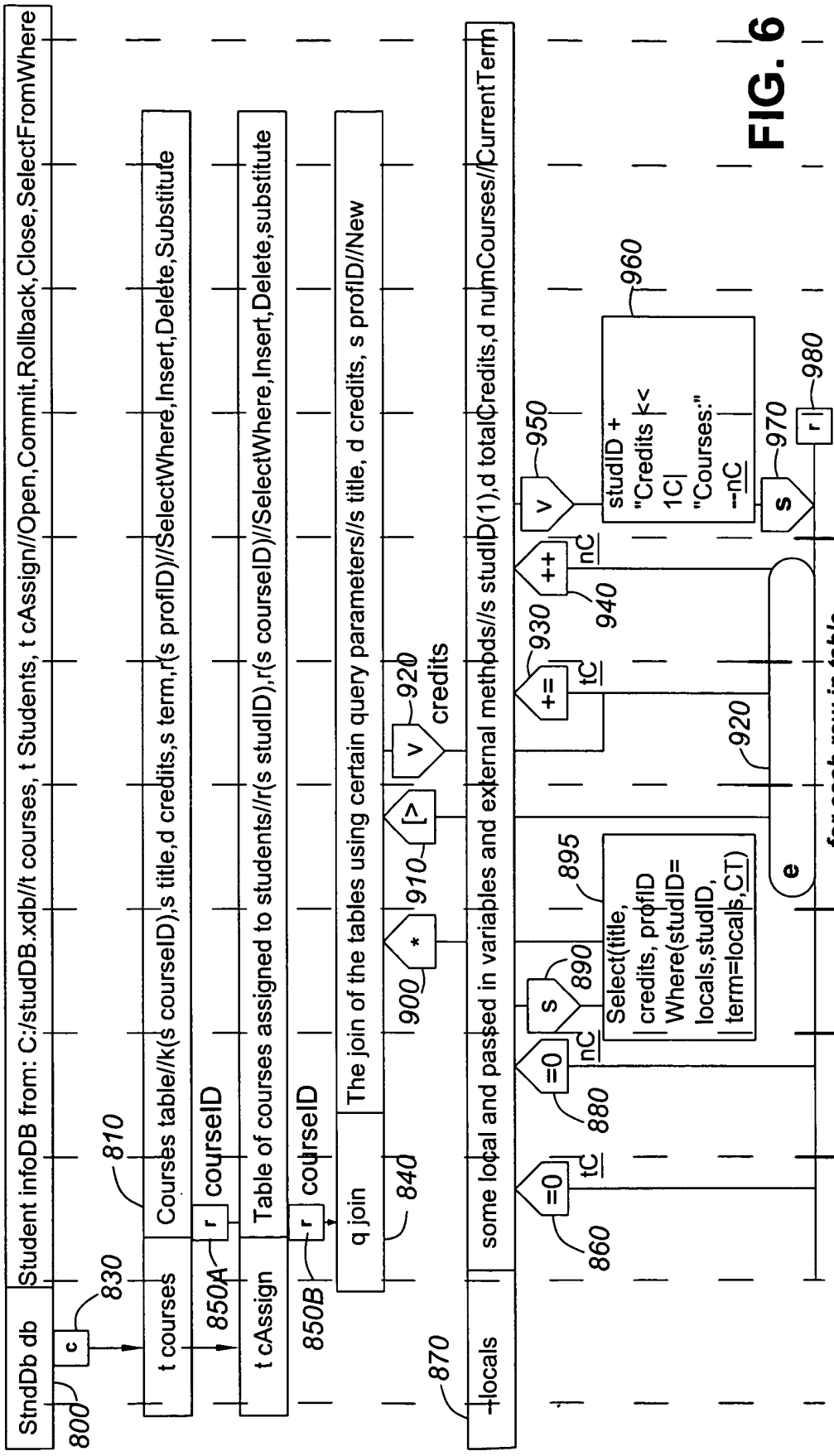

FIG. 6

Algorithm to query a student's current courses, and return the student id, the total credits and total courses

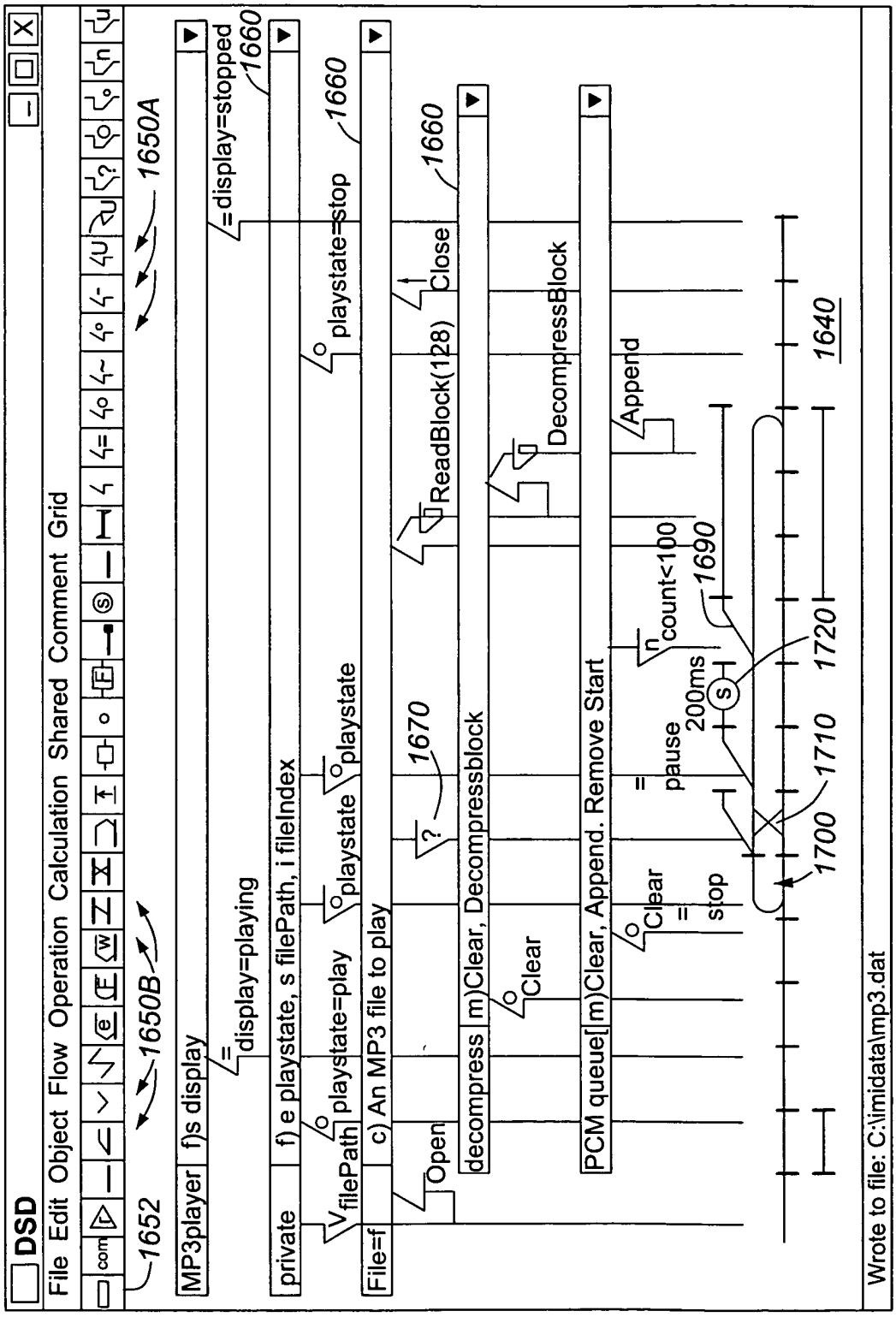
DSD
File Edit Object Flow Operation Calculation Shared Comment Grid
1652
1650B
1650A
MP3player
f)s display
=display=playing
=display=stopped
1660
private
f) e playstate, s filePath, i fileIndex
filePath
playstate=play
playstate
playstate=stop
1660
File=f
c) An MP3 file to play
Open
?
1670
ReadBlock(128)
Close
1660
decompress
m)Clear, Decompressblock
Clear
DecompressBlock
PCM queue[
m)Clear, Append. Remove Start
Clear
=
stop
=
pause
200ms
s
n
count<100
1690
Apperd
1700
1710
1720
1640
Wrote to file: C:\\midata\\mp3.dat

FIG. 7